CLAIMS

1. An electrical contact of the type in which a socket is provided that includes a plurality of tines, each of said plurality of tines adapted to extend radially away from a center, wherein the improvement comprises:

forming at least a portion of each of said plurality of tines from a high yield strength electrically conducting material.

2. An electrical contact of the type in which a socket is provided that includes a plurality of tines, each of said plurality of tines adapted to extend radially away from a center, wherein the improvement comprises:

providing an inner arc of each of said plurality of tines that includes a radius that is less than the radius of a pin that said contact is adapted to mate with.

3. An electrical contact of the type in which a socket is provided that includes a plurality of tines, each of said plurality of tines adapted to extend radially away from a center, wherein the improvement comprises:

providing at each of said plurality of tines a first stage proximate a base that includes a first inner diameter and a second stage that is disposed at the base at one end thereof and which extends therefrom to a distal end and where the second stage includes a second inner diameter at said one end thereof that is greater than the first inner diameter and where said second stage includes a reverse inner taper whereby the inner diameter of the second stage progressively decreases as it progresses toward said distal end.

A1

4. An electrical contact, comprising:

(a) a socket;

(b) a plurality of tines disposed in said socket, at least a portion of each of said tines formed of a high yield strength of metal; and

(c) means for connecting a wire to said socket.

Cont Sub B2

5. The electrical contact of claim 4 wherein each of said tines includes a first stage and a second stage, said first

stage having a first wall thickness that is thicker than a second wall thickness of said second stage that is disposed proximate to said first stage and which extends therefrom to a tip of each tine.

Cont Sub B2

6. The electrical contact of claim 5 wherein each of said tines of said second stage includes a reverse taper whereby said tines include a first inside diameter at said wall thickness that is greater than the inside diameter of said first stage, and wherein said reverse taper includes progressively smaller inside diameters as said second stage progresses toward said tip.

Sub B2

7. The electrical contact of claim 4 wherein each of said plurality of tines includes an inside arc that has a radius that is less than the radius of a pin said electrical contact is adapted to mate with, and wherein when said pin is inserted into said socket, said plurality of tines extend radially away from a center.

Cont Sub B2

8. The electrical contact of claim 7 wherein each of said plurality of tines is adapted to make contact with said pin

along a portion of the longitudinal length of each of said plurality of tines at a pair of edges of said inside arc proximate a tip of each of said tines when said pin is inserted into said socket.

9. The electrical contact of claim 4 wherein each of said plurality of tines includes a set that is machined therein whereby a tip of each of said plurality of tines is normally disposed closer to a center of said socket when said socket is not mated with a pin than is a second end of each of said plurality of tines that is disposed distally from said tip.

10. The electrical contact of claim 4 wherein each of said plurality of tines includes a first outside diameter that is proximate a tip and a second outside diameter that is greater than said first outside diameter, said second outside diameter being is disposed at a distal end from said tip, and wherein each of said plurality of tines includes a progressive increase in the outside diameter from said tip to said distal end.

Sub A3

11. The electrical contact of claim 10 wherein said socket includes a hood having a predetermined inside diameter that surrounds said plurality of tines, and wherein when a pin is mated inside of said socket, said plurality of tines extend radially outward a greater amount at said tip than at said distal end, and wherein a gap that exists intermediate said plurality of tines and said inside diameter of said hood is substantially identical along the longitudinal length of said plurality of tines.